

This listing of claims will replace all prior versions,
and listings, of claims in the application:

Claims 1-6 (canceled)

1 Claim 7 (currently amended): An image projection and
2 display device comprising:
3 a plurality of projectors;
4 a projection screen forming a focusing plane for
5 projected images from the plurality of projectors, mutually
6 overlapping regions existing between said images;
7 a test image storing section for storing
8 prescribed test images;
9 an image capturing section for acquiring
10 projected test images in which a prescribed test image is
11 projected onto said projection screen respectively by each
12 of said projectors;
13 a correction data calculating section for
14 calculating correction data for correcting the input images
15 for the respective projectors, on the basis of the acquired
16 test images, in such a manner that a target brightness is
17 achieved across the whole projection area including the
18 overlapping regions;
19 a correction data storing section for storing the
20 correction data thus calculated; and
21 an image correcting section for correcting the
22 images input to the respective projectors, by using said
23 correction data,
24 ~~The image projection and display device of claim 1~~
25 wherein at least one of the prescribed test images stored
26 in the test image storing section is a white test screen.

1 Claim 8 (currently amended): An image projection and
2 display device comprising:
3 a plurality of projectors;
4 a projection screen forming a focusing plane for
5 projected images from the plurality of projectors, mutually
6 overlapping regions existing between said images;
7 a test image storing section for storing
8 prescribed test images;
9 an image capturing section for acquiring
10 projected test images in which a prescribed test image is
11 projected onto said projection screen respectively by each
12 of said projectors;
13 a correction data calculating section for
14 calculating correction data for correcting the input images
15 for the respective projectors, on the basis of the acquired
16 test images, in such a manner that a target brightness is
17 achieved across the whole projection area including the
18 overlapping regions;
19 a correction data storing section for storing the
20 correction data thus calculated; and
21 an image correcting section for correcting the
22 images input to the respective projectors, by using said
23 correction data,
24 ~~The image projection and display device of claim 1 wherein~~
25 ~~at least one of the prescribed test images stored in the~~
26 ~~test image storing section is a gray test screen.~~

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1 Claim 9 (currently amended): An image projection and
2 display device comprising:
3 a plurality of projectors;

4 a projection screen forming a focusing plane for
5 projected images from the plurality of projectors, mutually
6 overlapping regions existing between said images;
7 a test image storing section for storing
8 prescribed test images;
9 an image capturing section for acquiring
10 projected test images in which a prescribed test image is
11 projected onto said projection screen respectively by each
12 of said projectors;
13 a correction data calculating section for
14 calculating correction data for correcting the input images
15 for the respective projectors, on the basis of the acquired
16 test images, in such a manner that a target brightness is
17 achieved across the whole projection area including the
18 overlapping regions;
19 a correction data storing section for storing the
20 correction data thus calculated; and
21 an image correcting section for correcting the
22 images input to the respective projectors, by using said
23 correction data,
24 ~~The image projection and display device of claim 1 wherein~~
25 ~~at least one of the prescribed test images stored in the~~
26 ~~test image storing section is one of a red, green and blue~~
27 ~~color test screen.~~

Claim 10 (canceled)

1 Claim 11 (currently amended): For use in an image
2 projection and display device including a plurality of
3 projectors and a projection screen forming a focusing plane
4 for projected images from the plurality of projectors with

5 mutually overlapping regions existing between the images,
6 apparatus comprising:
7 a test image storing section for storing
8 prescribed test images;
9 an image capturing section for acquiring
10 projected test images in which a prescribed test image is
11 projected onto said projection screen respectively by each
12 of said projectors;
13 a correction data calculating section for
14 calculating correction data for correcting the input images
15 for the respective projectors, on the basis of the acquired
16 test images, in such a manner that a continuous brightness
17 is achieved across the whole projection area including the
18 overlapping regions;
19 a correction data storing section for storing the
20 correction data thus calculated; and
21 an image correcting section for correcting the
22 images input to the respective projectors, by using said
23 correction data,
24 ~~The apparatus of claim 10~~ wherein at least one of the
25 prescribed test images stored in the test image storing
26 section is a white test screen.

1 Claim 12 (currently amended): For use in an image
2 projection and display device including a plurality of
3 projectors and a projection screen forming a focusing plane
4 for projected images from the plurality of projectors with
5 mutually overlapping regions existing between the images,
6 apparatus comprising:
7 a test image storing section for storing
8 prescribed test images;

9 an image capturing section for acquiring
10 projected test images in which a prescribed test image is
11 projected onto said projection screen respectively by each
12 of said projectors;
13 a correction data calculating section for
14 calculating correction data for correcting the input images
15 for the respective projectors, on the basis of the acquired
16 test images, in such a manner that a continuous brightness
17 is achieved across the whole projection area including the
18 overlapping regions;
19 a correction data storing section for storing the
20 correction data thus calculated; and
21 an image correcting section for correcting the
22 images input to the respective projectors, by using said
23 correction data,
24 ~~The apparatus of claim 10~~ wherein at least one of the
25 prescribed test images stored in the test image storing
26 section is a gray test screen.

1 Claim 13 (currently amended): For use in an image
2 projection and display device including a plurality of
3 projectors and a projection screen forming a focusing plane
4 for projected images from the plurality of projectors with
5 mutually overlapping regions existing between the images,
6 apparatus comprising:
7 a test image storing section for storing
8 prescribed test images;
9 an image capturing section for acquiring
10 projected test images in which a prescribed test image is
11 projected onto said projection screen respectively by each
12 of said projectors;

13 a correction data calculating section for
14 calculating correction data for correcting the input images
15 for the respective projectors, on the basis of the acquired
16 test images, in such a manner that a continuous brightness
17 is achieved across the whole projection area including the
18 overlapping regions;
19 a correction data storing section for storing the
20 correction data thus calculated; and
21 an image correcting section for correcting the
22 images input to the respective projectors, by using said
23 correction data,
24 ~~The apparatus of claim 10~~ wherein at least one of the
25 prescribed test images stored in the test image storing
26 section is one of a red, green and blue color test screen.

Claim 14 (canceled)